

Mr. Phil Fortney  
Calcium Products, Inc.  
6455 West County Road 600 South  
Swayzee, IN 46986

Re: **053-13693-00038**  
First Significant Revision to  
**FESOP F053-5552-00038**

Dear Mr. Fortney:

Calcium Products, Inc. was issued a permit on December 10, 1996 for a limestone pulverizing plant. A determination was made on January 2, 2001 by IDEM, OAQ to modify the FESOP PM10 emission limitation for the aggregate drying operation and the indoor activities and screening operations. Pursuant to the provisions of 326 IAC 2-8-11.1 a significant permit revision to this permit is hereby approved as described in the attached Technical Support Document.

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the significant permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Please find the entire FESOP with the changes due to this first significant permit revision (053-13693-00038).

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Phillip Ritz, c/o OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, or call (800) 451-6027, press 0 and ask for extension (3-6878), or dial (973) 575-2555, extension 3241.

Sincerely,

Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Management

Attachments  
PR/EVP

cc: File - Grant County  
U.S. EPA, Region V  
Grant County Health Department  
Air Compliance Section Inspector - Jim Thorpe  
Compliance Data Section - Jerri Curless  
Administrative and Development - Janet Mobley  
Technical Support and Modeling - Michelle Boner

**FEDERALLY ENFORCEABLE STATE  
OPERATING PERMIT (FESOP)  
OFFICE OF AIR QUALITY**

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015  
Phone: 1-800-451-6027

**Calcium Products, Inc.**  
**6455 West County Road 600 South**  
**Swayzee, IN 46986**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the facilities listed in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 and contains the conditions and provisions specified in 326 IAC 2-8 and 40 CFR Part 70.6 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments) and IC 13-15 and IC 13-17 (prior to July 1, 1996, IC 13-1-1-4 and IC 13-7-10).

Operation Permit No.: F053-5552-00038	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: December 10, 1996.
First Administrative Amendment No.: 053-8738, issued on July 31, 1997 Second Administrative Amendment No.: 053-12181, issued on July 10, 2000	
First Significant Permit Revision SPR053-13693-00038	Pages Affected: 20
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

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## **SECTION A SOURCE SUMMARY**

### **A.1 General Information**

The Permittee owns and operates a limestone pulverizing plant.

Responsible Official: Phil Fortney  
Source Address: 6455 West County Road 600 South, Swayzee, Indiana 46986  
Mailing Address: 6455 West County Road 600 South, Swayzee, Indiana 46986  
SIC Code: 3274  
County Location: Grant  
County Status: Attainment for all criteria pollutants  
Source Status: Synthetic Minor Source, FESOP Program

### **A.2 Emission Units and Pollution Control Summary**

The stationary source consists of the following emission units and pollution control devices:

- (a) one (1) drum dryer with a maximum aggregate throughput of 80 tons per hour, equipped with one (1) natural gas fired aggregate dryer burner with a maximum rated capacity of 27 million (MM) Btu per hour. This equipment will be replaced by Item (f);
- (b) one (1) baghouse for controlling particulate matter (PM) emissions from the drum dryer, exhausting at one (1) stack (ID NO. #1), and one (1) baghouse for controlling particulate matter (PM) emissions from all indoor activities as well as screening operations, exhausting at one (1) stack (ID NO. #2);
- (c) one (1) 5' x 10' 3-deck screen;
- (d) four (4) 4' x 8' screens;
- (e) one (1) 36" Gyradisc crusher;
- (f) one (1) drum dryer to replace the existing drum dryer (Item (a)) with a maximum aggregate throughput of 100 tons per hour, equipped with one (1) natural gas fired aggregate dryer burner with a maximum rated capacity of 50 million (MM) Btu per hour; and
- (g) one (1) enclosed bucket elevator.

### **A.3 Insignificant Activities**

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(20):

- (a) one (1) feed hopper located outdoor;
- (b) one (1) raw material feed hopper;
- (c) one (1) outdoor feed conveyor;
- (d) one (1) outdoor transferring conveyor in product shipping area;
- (e) seven (7) transferring conveyors;
- (f) three (3) transferring conveyors;
- (g) one (1) enclosed storage bin with a maximum capacity of 800 tons;
- (h) nine (9) enclosed storage bins each with a maximum capacity of 180 tons;
- (i) four (4) enclosed storage bins each with a maximum capacity of 400 tons;
- (j) one (1) enclosed surge bin inside with a maximum capacity of 100 tons; and
- (k) paved roads with public access.

### **A.4 FESOP Applicability [326 IAC 2-8-2]**

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to Indiana Department of Environmental Management (IDEM), Office of Air Quality

Calcium Products Inc.  
Swayzee, Indiana  
Permit Reviewer: EVP

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(OAQ) for a Federally Enforceable State Operating Permit (FESOP).

## SECTION B

## GENERAL CONDITIONS

- B.1 General Requirements [IC 13-15] [IC 13-17] (Prior to July 1, 1996: IC 13-7 and IC 13-1-1)  
The permittee shall comply with the provisions of IC 13-15 (Permits Generally), IC 13-17 (Air Pollution Control) and the rules promulgated thereunder.
- B.2 Definitions [326 IAC 2-8-1]  
Terms in this permit shall have the meaning assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11 (prior to July 1, 1996, IC 13-7-2, IC 13-1-1-2), 326 IAC 1-2, and 326 IAC 2-7 shall prevail.
- B.3 Permit Term [326 IAC 2-8-4(2)]  
This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-5-5-3 (prior to July 1, 1996, IC 13-7-10-2.5), of the permit.
- B.4 Enforceability [326 IAC 2-8-6]  
(a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM.  
  
(b) Unless otherwise stated, terms and conditions of this permit, including any provisions to limit the source's potential to emit, are enforceable by the United States Environmental Protection Agency (U.S. EPA) and citizens under the Clean Air Act.
- B.5 Termination of Right to Operate [326 IAC 2-8-9]  
The expiration of this permit terminates the Permittee's right to operate unless a timely and complete renewal application has been submitted consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-7.
- B.6 Severability [326 IAC 2-8-4(4)]  
(a) The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.  
  
(b) Indiana rules from 326 IAC quoted in conditions in this permit are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard.
- B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]  
This permit does not convey any property rights of any sort or any exclusive privilege.
- B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)]  
(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

- (b) The Permittee shall also provide additional information as requested by IDEM, OAQ, to determine the compliance status of the source in accordance with 326 IAC 2-8-5(a).
- (c) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that the IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
- (d) Upon written request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit. For information claimed to be confidential, the Permittee shall furnish such records directly to both the U.S. EPA and IDEM, OAQ, along with a claim of confidentiality.

Such confidentiality claims shall meet the requirements of 40 CFR Part 2, Subpart B (when submitting to U.S. EPA) and 326 IAC 17 (when submitting to IDEM, OAQ).

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:
  - (1) enforcement action;
  - (2) permit termination, revocation and reissuance or modification; and
  - (3) denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)]

Any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

A responsible official is defined at 326 IAC 2-7-1(33).

Calcium Products Inc.  
Swayzee, Indiana  
Permit Reviewer: EVP

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B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually certify that the source has complied with the terms and conditions contained in this permit, including emission limitations, standards, and work practices. The certification shall be submitted July 1 to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Air Enforcement Branch-Indiana (AE-17J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

- (b) This annual compliance certification report required by this permit shall be timely if:
- (1) Delivered by U.S. mail and postmarked on or before the date it is due; or
  - (2) Delivered by any other method if it is received and stamped by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
- (1) The identification of each term and condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period; and
  - (5) Such other facts as IDEM, OAQ, may require to determine the compliance status of the source.

B.13 Preventive Maintenance Plan [326 IAC 2-8-4(9)] [326 IAC 1-6-3]

- (a) The Permittee shall prepare, maintain and implement operation and Preventive Maintenance Plans as necessary including the following information on each:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;

- (3) Corrective actions that will be implemented in the event an inspection indicates an out of specification situation;
  - (4) A time schedule for taking such corrective actions including a schedule for devising additional corrective actions for situations that may not have been predicted; and
  - (5) Identification and quantification of the replacement parts which will be maintained in inventory for quick replacement.
- (b) Preventive Maintenance Plans shall be submitted to IDEM, OAQ, upon request and shall be subject to review and approval by IDEM, OAQ.

B.14 Emergency Provision [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided as follows:
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements of this permit;
  - (4) The Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency occurrence by telephone or facsimile;
- Telephone No.: 1-800-451-6027 (ask for Office of Air Quality) or,  
Telephone No.: 317-233-0178  
Facsimile No.: 317-233-5967
- (5) The Permittee submitted written notice or by facsimile of the emergency to:

Indiana Department of Environmental Management,  
Compliance Branch, Office of Air Quality,  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency. The notice shall fulfill the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(C)(33).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes any emergency or upset provision contained in 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ, may require that the preventive maintenance plan required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
  - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
    - (A) the Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
    - (B) continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent

the situations identified in clause (B) above.

B.15 Deviations from Permit Requirements and/or Conditions [326 IAC 2-8-4(3)(C)(ii)]

Deviations from requirements, (for emergencies see Condition B.14 - Emergency Provision) the probable cause of such deviations, and any corrective actions or preventive measures taken shall be reported to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

within ten (10) calendar days from the date of the discovery of the deviation.

Written notification shall be submitted on the attached Deviation Occurrence Reporting Forms.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination

[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8(a)]  
[326 IAC 2-8-8(b)] [326 IAC 2-8-8(c)]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)]
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 15-15-7-2 (prior to July 1, 1996, in IC 13-7-10-5) or if the commissioner determines any of the following:
  - (1) That it contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practical. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include, at minimum, the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(20).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-5-3]
  - (1) The Permittee has a duty to submit a timely and complete permit renewal application. A timely renewal application is one that is:
    - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
    - (B) Delivered by U. S. mail and postmarked on or before the date it is due; or
    - (C) Delivered by any other method if it is received and stamped by IDEM, OAQ, on or before the date it is due.
  - (2) If IDEM, OAQ fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application of Renewal [326 IAC 2-8-9]

If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as needed to process the application.

B.18 Administrative Permit Amendment [326 IAC 2-8-10]

- (a) An administrative permit amendment is a FESOP revision that makes changes of the type specified under 326 IAC 2-8-10(a).
- (b) An administrative permit amendment may be made by IDEM, OAQ, consistent with the procedures specified under 326 IAC 2-8-10(b).
- (c) The Permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Minor Permit Modification [326 IAC 2-8-11(a)] [326 IAC 2-8-11(b)(1) and (2)]

- (a) A permit modification is any revision to this permit that cannot be accomplished as an administrative permit amendment under 326 IAC 2-8-10.
- (b) Minor permit modification procedures shall follow the procedures specified under 326 IAC 2-8-11(b)(1)(A) through (F).
- (c) An application requesting the use of minor modification procedures shall meet the requirements of 326 IAC 2-8-3(c) and shall include the information required in 326 IAC 2-8-11(b)(3)(A) through (D).
- (d) The Permittee may make the change proposed in its minor permit modification application immediately after it files such application unless the change is subject to the construction permit requirements of 326 IAC 2-1, 326 IAC 2-2, or 326 IAC 2-3. After the Permittee makes the change allowed under minor permit modification procedures, and until IDEM, OAQ takes any of the actions specified in 326 IAC 2-8-11(b)(5), the Permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this period, the Permittee need not comply with the existing permit terms and conditions it seeks to modify. If the Permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against it. [326 IAC 2-8-11(b)(6)]

B.20 Significant Permit Modification [326 IAC 2-8-11(d)]

- (a) Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative amendments.
- (b) Any significant change in existing monitoring permit terms or conditions and every relaxation of reporting or record keeping permit terms or conditions of this permit shall be considered significant.
- (c) Nothing in 326 IAC 2-8-11(d) shall be construed to preclude the Permittee from making changes consistent with 326 IAC 2-8 that would render existing permit compliance terms and conditions irrelevant.
- (d) Significant modifications of this permit shall meet all requirements of 326 IAC 2-8, including those for application, public participation, and review by the U.S. EPA, as they apply to permit issuance and renewal.

B.21 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-8-11(b)(2)]  
Notwithstanding 326 IAC 2-8-11(b)(1)(D)(i) and 326 IAC 2-8-11(c)(1), minor permit modification procedures may be used for modifications of this permit involving the use of economic incentives, marketable FESOP's, emissions trading, and other similar approaches to the extent that such minor permit modification procedures are explicitly provided for in the applicable implementation plan (SIP) or in applicable requirements promulgated by the U.S. EPA.

B.22 Operational Flexibility [326 IAC 2-8-15]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed therein as a rate of emissions or in terms of total emissions);
- (3) The Permittee notifies the:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency (EPA), Region V  
Air and Radiation Division, Regulation Development Branch-Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit. The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(C)(33); and

- (4) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review. Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-8-15(b)(1), (c)(1), and (d).
- (b) For each such change, the required written notification shall include the following:
- (1) A brief description of the change within the source;
  - (2) The date on which the change will occur;
  - (3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

(c) Emission trades [326 IAC 2-8-15(c)]

The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints in section (a) of this condition and those in 326 IAC 2-8-15(c).

(d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]

The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7) and subject to the constraints in section (a) of this condition and those in 326 IAC 2-8-15(d).

B.23 Construction Permit Requirement [326 IAC 2-1]

Prior to any change in the operation which may result in an increase in allowable emissions exceeding those specified in 326 IAC 2-1-1 (Construction and Operating Permit Requirements), the change must be approved by the Office of Air Quality (OAQ).

B.24 Inspection and Entry [326 IAC 2-8-5(a)(2)]

Upon presentation of IDEM identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of demonstrating compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of demonstrating compliance with this permit or applicable requirements.  
[326 IAC 2-8-5(a)(4)]

B.25 Annual Fee Payment [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, consistent with the fee schedule established in 326 IAC 2-8-16.

- (b) Failure to pay may result in administrative enforcement action, revocation of this permit, referral to the Office of Attorney General for collection, or other appropriate measures.
- (c) The Permittee shall pay the annual fee within thirty (30) calendar days of receipt of a billing by IDEM, OAQ or in a time period that is consistent with the payment schedule issued by IDEM, OAQ.
- (d) If the Permittee does not receive a bill from IDEM, OAQ, thirty (30) calendar days before due date, the Permittee shall call the following telephone numbers: 1-800-451-6027 or 317-233-0179 (ask for OAQ, Data Support Section), to determine the appropriate permit fee. The applicable fee is due April 1 of each year.

## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source
---------------

### Emissions Limitations [326 IAC 2-8-4(1)]

C.1 Overall Source Limit [326 IAC 2-8]

Pursuant to 326 IAC 2-8, emissions of any regulated pollutant from the entire source shall not exceed 99 tons per 365 day period. Emissions of hazardous air pollutants (HAP) from the entire source shall not exceed 9 tons per 365 day period for any individual HAP or 24 tons per 365 day period of any combination of HAPs. Emissions shall include those from all emission points at the source including those that are insignificant as defined in 326 IAC 2-7-1(20). The source shall be allowed to add insignificant activities not already listed in this permit, as long as the total emissions from the source do not exceed the above specified limits. In the event that any condition or combination of conditions in Section D of this permit differs from the above, the most restrictive limit will prevail.

C.2 Opacity

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following:

- (a) Visible emissions shall not exceed an average of 40 percent opacity in 24 consecutive readings;
- (b) Visible emissions shall not exceed 60 percent opacity for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period; and
- (c) Unless otherwise stated in Section D.

C.3 Open Burning

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. This is not a federally enforceable condition.

C.4 Fugitive Dust Emissions

The Permittee shall be in violation of 326 IAC 6-4 if any of the criteria specified in 326 IAC 6-4-2 (1) through (4) are violated.

C.5 Fugitive Particulate Matter Emission Limitations

Fugitive particulate matter emissions shall be controlled according to the plan submitted on August 30, 1996. The plan consists of:

- (a) Operating all process equipment indoors, except for the feed hopper conveyor and truck loading operations, with exhausts ducted to the one (1) baghouse for particulate matter control;
- (b) Applying water to outdoor conveying and transferring operations, which are not controlled by dust control equipment, on an as needed basis; and

- (c) Wetting plant roadways on an as needed basis.

**C.6 Operation of Equipment [326 IAC 2-8-5(a)(4)]**

- (a) All equipment that potentially might emit pollutants into the ambient air shall be properly operated and maintained.
- (b) Unless otherwise stated in this permit, all air pollution control equipment listed in this permit shall be operated at all times that the emission unit(s) vented to the control equipment is in operation.
- (c) The permittee shall perform all necessary maintenance and make all necessary attempts to keep all air pollution control equipment in proper operating condition at all times.

**C.7 Operation of Existing and Replacing Dryers**

Existing 80 tons per hour dryer (Item (a) on the equipment list) shall be removed before the replacement 100 tons per hour dryer (Item (f) on the equipment list) can commence operation.

**Testing [326 IAC 2-8-4(3)]**

**C.8 Performance Testing**

Compliance testing shall be conducted on the dryer particulate matter control system for PM and PM10 within 36 months to 42 months of issuing FESOP. All testing shall be performed according to the provisions of 326 IAC 3-2.1 (Source Sampling Procedures) and by methods in the approved test protocol. The test protocol shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

at least thirty-five (35) days before the intended test date. [326 IAC 2.1-2].

**Compliance Monitoring [326 IAC 2-8-5(a)(1)]**

**C.9 Compliance Monitoring [326 IAC 2-8-4(3)]**

Compliance with applicable requirements shall be documented in accordance with the provisions of 326 IAC 2-8-4(3). The Permittee shall be responsible for installing any necessary equipment and initiating any additional monitoring no more than ninety (90) after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee shall notify:

Indiana Department of Environmental Management,  
Compliance Data Section, Office of Air Quality,  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

in writing, with full justification of the reasons for inability to meet this date and a schedule which it expects to meet. If a denial of the request is not received before the monitoring is fully implemented, the schedule shall be deemed approved. The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(C)(33).

**C.10 Maintenance of Monitoring Equipment [326 IAC 1-6]**

The Permittee shall perform all necessary maintenance and make all necessary attempts to keep all required monitoring equipment in proper operating condition at all times. In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. Preventive maintenance plans of the monitors shall be implemented. In addition prompt correction, as indicated, shall be initiated within the time frames specified, whenever the parameters monitored fall outside of the indicated values.

**C.11 Monitoring Methods [326 IAC 3]**

Any monitoring or testing performed to meet the requirements of this permit shall be performed, whenever applicable according to the provisions of 326 IAC 3, or 40 CFR Part 60, Appendix A, as appropriate, unless some other method is specified in this permit.

**C.12 Pressure Gauge Specifications**

Whenever a condition in this permit requires the taking of pressure drop across any part of the unit or its control device the gauge employed shall have a scale such that the expected normal reading shall be no less than 20 percent of full scale and be accurate within  $\pm 2$  percent of full scale reading. The instrument shall be quality assured and maintained as specified by the vendor.

**Corrective Actions [326 IAC 2-8-4(1)] [326 IAC 2-8-5(1)]**

**C.13 Failure to Take Corrective Action**

For each unit for which parametric monitoring is required, appropriate corrective actions as described in the Preventive Maintenance Plan shall be taken when indicated by monitoring information. Failure to take corrective action following an excursion of a surrogate monitoring parameter within the prescribed time will constitute a violation of the permit unless taking the corrective action set forth in the Plan would be unreasonable.

After investigating the reason for the excursion, the permittee may be excused from taking further corrective action for any of the following reasons:

- (a) Providing that prompt action was taken to correct the monitoring equipment, that the monitoring equipment malfunctioned, giving a false reading; or
- (b) The permittee has determined that the parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied; or

- (c) An automatic measurement was taken when the process was not operating; or
- (d) The permittee determines that the process has already returned to operating within "normal" parameters and no corrective action is required.

Records shall be kept of all instances in which the action values were not met and of all corrective actions taken. In the event of an emergency as defined in 326 IAC 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

**C.14 Actions Related to Noncompliance Demonstrated by a Stack Test**

Whenever the results of the stack test performed in conformance with Condition C.8 - Performance Testing, of this permit exceed the level specified in any condition of this permit, appropriate corrective actions shall be submitted to IDEM-OAQ within 30 (thirty) days of receipt of the test results. These actions shall be implemented immediately unless notified by OAQ that they are not acceptable. The Permittee shall minimize emissions while the corrective actions are being implemented.

**Record Keeping and Reporting [326 IAC 2-8-4(3)]**

**C.15 Monitoring Data Availability**

All observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions. Records shall be kept of the times that the equipment is not operating. If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality. If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded. At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed 5 percent of the operating time in any quarter. Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason.

**C.16 General Record Keeping Requirements**

- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location and available within one hour upon verbal request of an IDEM, OAQ representative, for a minimum of three (3) years. They may be stored elsewhere for the remaining two years providing they are made available within thirty (30) days after written request.
- (b) Records of required monitoring information shall include:
  - (1) The date, place, and time of sampling or measurements;
  - (2) The dates analyses were performed;
  - (3) The company or entity performing the analyses;

- (4) The analytic techniques or methods used;
  - (5) The results of such analyses; and
  - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include:
- (1) Copies of all reports required by this permit;
  - (2) All original strip chart recordings for continuous monitoring instrumentation;
  - (3) All calibration and maintenance records;
  - (4) All preventive maintenance and corrective actions that were implemented. Such records shall briefly describe what was done and indicate who did it;
  - (5) Relevant work purchases orders;
  - (6) Quality assurance and quality control procedures;
  - (7) Operator's standard operating procedures;
  - (8) Manufacturer's specifications or their equivalent; and
  - (9) Equipment "troubleshooting" guidance.

C.17 General Reporting Requirements

- (a) Reports required by conditions in Section D of this permit shall be submitted to:
- Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015
- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be timely if:
- (1) Delivered by U.S. mail and postmarked on or before the date it is due; or
  - (2) Delivered by any other method if it is received and stamped by IDEM, OAQ, on or before the date it is due.
- (c) All instances of deviations from any requirements of this permit must be clearly identified in such reports.
- (d) Any corrective actions taken as a result of an exceedance of a limit, an excursion from the parametric values, or a malfunction that may have caused excess emissions must be

clearly identified in such reports.

- (e) The first report shall cover the period commencing the date of issuance of this permit and ending March 31, 1997.

## SECTION D.1

## FACILITY OPERATION CONDITIONS

- (a) one (1) drum dryer with a maximum aggregate throughput of 80 tons per hour, equipped with one (1) natural gas fired aggregate dryer burner with a maximum rated capacity of 27 million (MM) Btu per hour. This equipment will be replaced by Item (f);
- (b) one (1) baghouse for controlling particulate matter (PM) emissions from the drum dryer, exhausting at one (1) stack (ID NO. #1), and one (1) baghouse for controlling particulate matter (PM) emissions from all indoor activities as well as screening operations, exhausting at one (1) stack (ID NO. #2);
- (c) one (1) 5' x 10' 3-deck screen;
- (d) four (4) 4' x 8' screens;
- (e) one (1) 36" Gyradisc crusher;
- (f) one (1) drum dryer to replace the existing drum dryer (Item (a)) with a maximum aggregate throughput of 100 tons per hour, equipped with one (1) natural gas fired aggregate dryer burner with a maximum rated capacity of 50 million (MM) Btu per hour; and
- (g) one (1) enclosed bucket elevator.

## Emissions Limitations and Standards [326 IAC 2-8-4(1)] [326 IAC 6-3] [326 IAC 12] [40 CFR Part 60.90]

### D.1.1 Particulate Matter [326 IAC 2-2] [40 CFR 52.21][40 CFR Part 60.672]

State: Pursuant to 326 IAC 2-2 (PSD), the particulate matter emissions from the:

- (a) aggregate drying operation, exhaust stack (ID No. #1), shall not exceed 36.06 pounds per hour (157.96 tons per year), including both filterable and condensible fractions.
- (b) indoor activities and screening operations, exhaust stack (ID No. #2), shall not exceed 19.61 pounds per hour (85.89 tons per year), including both filterable and condensible fractions.

This usage limit is required to limit the sourcewide potential to emit of PM to less than 250 tons per 12 consecutive month period. Compliance with this limit makes 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 not applicable.

### D.1.2 Opacity

Pursuant to 326 IAC 12,(40 CFR Part 60.672, Subpart OOO) "Standards of Performance for Nonmetallic Mineral Processing Plant", the particulate matter emissions from the 100 tons per hour limestone dryer (equipment Item (f)) and bucket elevator shall not discharge or cause the discharge into the atmosphere any gases which exhibit 7 percent opacity or greater.

### D.1.2a Particulate Matter 10 Microns (PM-10) [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, particulate matter 10 microns emissions from the

- (a) aggregate drying operation, exhaust stack (ID No. #1), shall not exceed 14.53 pounds per hour, including both filterable and condensible fractions.
- (b) indoor activities and screening operations, exhaust stack (ID No. #2), shall not exceed 7.9 pounds per hour, including both filterable and condensible fractions.

Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

### D.1.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Condition B.13 of this permit, is required for each facility.

## **Testing Requirements [326 IAC 2-8-4(3)]**

### **D.1.4 Particulate Matter**

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During the period between 36 months and 42 months after issuance of this permit, the Permittee shall perform PM and PM10 testing utilizing methods per 40 CFR Part 60 Appendix A, Method 5, 17, 40 CFR Part 51 Appendix M, Method 201, 201a, 202, as approved by the Commissioner. This test shall be repeated at least once every five years from the date of this valid compliance demonstration. PM10 includes filterable and condensable PM10.

## **Compliance Monitoring Requirements [326 IAC 2-8-5(a)(1)]**

### **D.1.5 Pressure Readings**

The Permittee shall take readings of the total static pressure drop across the baghouse controlling the mixing and drying operation, at least once a per working shift when the mixing and drying process is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 4.0 and 9.0 inches of water or a range established during the latest stack test. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Condition C.12 - Pressure Gauge Specifications, be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

### **D.1.6 Daily Visible Emissions Notations**

Daily visible emission notations of the conveyers, material transfers, aggregate storage piles, unpaved roads, and the mixing and drying operation stack exhaust shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processed operated continuously "normal" means those conditions prevailing, or expected to prevail, 80 percent of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation specified condition prescribing visible emissions. A trained employee is an employee who has worked at the plant at least one month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

### **D.1.7 Broken Bag or Failure Detection**

That in the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the units have been replaced.
- (b) Based upon the findings of the inspection, any additional corrective actions will be devised within eight (8) hours of discovery and will include a timetable for completion.

**D.1.8 Particulate Matter**

Pursuant to CP-053-3456, issued on April 18, 1994, the baghouses controlling particulate matter emissions shall be in operation at all times when the limestone pulverizing plant is in operation.

**D.1.9 Preventive Inspections**

The following inspections shall be performed when the mixer/dryer is operating in accordance with the Preventive Maintenance Plan prepared pursuant to Condition B.13:

Daily:

- (a) Baghouse inlet temperature and air flow rate;
- (b) Adequate dust removal from hoppers;
- (c) Compressed air supply;
- (d) Proper isolation damper operation; and
- (e) Monitoring of bag cleaning cycle.

Weekly:

- (a) Bag cleaning mechanisms; and
- (b) Condition of the ductwork.

Monthly:

- (a) Internal inspection for air leaks;
- (b) Bag condition; and
- (c) Fan condition and operation.

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

**D.1.10 Operational Parameters**

The Permittee shall maintain a daily record for the baghouse controlling particulate matter emissions from indoor operations of the following values:

- (1) Weekly records of the following operational parameters during normal operation when venting to the atmosphere:
  - (a) Inlet and outlet differential static pressure;
  - (b) Cleaning cycle: frequency and differential pressure;
- (c) Visible observations;
- (d) Checklist with dates and initials for each preventive action performed; and

Calcium Products Inc.  
Swayzee, Indiana  
Permit Reviewer: EVP

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Modified By: PR/EVP

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(e) Records of corrective actions.

State Form 47738 (5-96)

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
CERTIFICATION**

Source Name: Calcium Products, Inc.  
Source Address: 6455 West County Road 600 South, Swayzee, Indiana 46986  
FESOP No.: F053-5552-00038

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.**

Please check what document is being certified:

- 9 Deviation Occurrence Reporting Form (For Control Equipment Monitoring)
- 9 Deviation Occurrence Reporting Form (For Material Usage, Quality, Etc.)
- 9 Relocation Notification
- 9 Test Result (specify) \_\_\_\_\_
- 9 Report (specify) \_\_\_\_\_
- 9 Notification (specify) \_\_\_\_\_
- 9 Other (specify) \_\_\_\_\_

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

Date of Deviation	Start/Stop Time of Deviation (Continuous Monitoring Only)	Actual Value Recorded	Reason for Deviation & Corrective Action Taken

State Form 47741 (5-96)

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
DEVIATION OCCURRENCE REPORT**

Source Name: Calcium Products, Inc.  
Source Address: 6455 West County Road 600 South, Swayzee, Indiana 46986  
FESOP No.: F053-5552-00038

A separate copy of this report must be submitted for **each** material type, quantity usage and operation limitation (except control equipment monitoring) listed in this permit .  
Attach a signed certification to complete this report.

Stack/Vent ID:

Equipment/Operation:

Parameter Subject to Material Type, Quantity Usage or Operation Limitations Specified in the Permit:  
(ex: 2500 pounds per day, 300 hours per year, 5000 gallons per month)

Determination Period for this Parameter:  
(ex: 365-day rolling sum, fixed monthly rate)

9 Permit Has No Rate Limitations for this Parameter.

Content Restriction for this Parameter:  
(ex: maximum of 40 percent VOC in inks, 0.5 percent sulfur content)

Demonstration Method for this Parameter:  
(ex: MSDS, Supplier, material sampling & analysis)

9 Permit Has No Content Limitations for this Parameter.

Comments:

## **Indiana Department of Environmental Management Office of Air Quality**

### **Technical Support Document (TSD) for a Significant Permit Revision to a Federally Enforceable State Operating Permit**

#### **Source Background and Description**

Source Name:	Calcium Products, Inc.
Source Location:	6455 West County Road 600 South, Swayzee, IN 46986
County:	Grant
SIC Code:	3274
Operation Permit No.:	F053-5552-00038
Operation Permit Issuance Date:	December 10, 1996
Permit Revision No.:	053-13693-00038
Permit Reviewer:	Phillip Ritz/EVP

The Office of Air Quality (OAQ) has made a determination to modify the FESOP PM and PM10 emission limitation in the FESOP for Calcium Products, Inc. relating to the operation of a limestone pulverizing plant.

#### **History**

Upon further evaluation, the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) has made a determination to issue a Significant Permit Revision to a Federally Enforceable State Operating Permit (FESOP) to modify the PM and FESOP PM10 emission limitations for the aggregate drying operation and the indoor activities and screening operations. The current FESOP lists a single PM and PM10 emission limitation for emission units exhausting to one stack, however, these units exhaust to two separate stacks, each of which require a separate PM and PM10 emission limitation. The OAQ has determined that pursuant to the provisions of 326 IAC 2-8-11.1(f), any modifications that require an adjustment to the emissions cap limitations shall be required to be reviewed in accordance with the procedures in subsection 326 IAC 2-8-11.1(f). No new units are being added to the source under this revision, no existing units are being physically or operationally modified, there has been no change in the potential to emit for the source and there has been no increase in throughput for any of the emission units.

#### **Existing Approvals**

The source was issued a Federally Enforceable State Operating Permit (F053-5552-00038) on December 10, 1996. The source has since received the following:

- (a) First Administrative Amendment No.: 053-8738, issued on July 31, 1997; and

(b) Second Administrative Amendment No.: 053-12181, issued on July 10, 2000.

### Enforcement Issue

There are no enforcement actions pending.

### Recommendation

The staff recommends to the Commissioner that the Significant Permit Revision be approved. This recommendation is based on the following facts and conditions:

A determination was made on January 2, 2001 by IDEM, OAQ to modify the FESOP PM and PM10 emission limitations for the aggregate drying operation and the indoor activities and screening operations.

### Limited Potential to Emit

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units.

	Limited PTE (tons/yr)						
Process/ facility	PM	PM-10	SO <sub>2</sub>	VOC	CO	NOx	HAPs
combustion	0.00	0.00	0.13	0.61	7.67	30.66	0.00
aggregate drying	<del>15.33</del> <b>157.96</b>	<del>2.20</del> <b>63.27</b>	0.00	0.00	0.00	0.00	0.00
<b>indoor activities and screening operations</b>	<b>85.89</b>	<b>34.67</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
conveying/handling (insignificant activity)	0.12	0.05	0.00	0.00	0.00	0.00	0.00
other insignificant activities **	5.00	1.00	0.00	0.00	0.00	0.00	0.00
Total Emissions	<del>20.45</del> <b>249.00</b>	<del>3.25</del> <b>99.00</b>	0.13	0.61	7.67	30.66	0.00

\*\* Estimated emissions

The Limited Potential to Emit table in the TSD for the Federally Enforceable State Operating Permit (F053-5552-00038), issued on December 10, 1996, listed the controlled PM and PM10 emissions from the aggregate drying stack. The aggregate drying stack has since been separated into two operations venting to two stacks, those being (1) the aggregate drying operation, exhaust stack ID No. #1, and (2) the indoor activities and screening operations, exhaust stack ID No. #2. The limited potential to emit table in this significant permit revision lists the allowable PM and PM10 emissions for the aggregate drying operation and the indoor activities and screening operations. There has been no change in the potential to emit for the source, and there has been no increase in throughput for any of the emission units.

## County Attainment Status

The source is located in Grant County.

Pollutant	Status
PM-10	attainment
SO <sub>2</sub>	attainment
NO <sub>2</sub>	attainment
Ozone	attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (NO<sub>x</sub>) are precursors for the formation of ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to the ozone standards. Grant County has been designated as attainment or unclassifiable for ozone.

## Federal Rule Applicability

There are no new Federal Rules applicable to the entire source basis due to this Significant Source Modification. All Federal Rules cited in FESOP (F053-5552-00038) issued on December 10, 1996, continue to apply to this source.

## State Rule Applicability - Entire Source

### 326 IAC 2-2 (PSD Minor Limit)

The emissions of PM from the one (1) drum dryer, exhaust stack ID No. #1, shall be less than 36.06 pounds per hour (157.96 tons per year). The emissions of PM from the indoor activities and screening operations, exhaust stack ID No. #2, shall be less than 19.61 pounds per hour (85.89 tons per year). This usage limit is required to limit the potential to emit of PM to less than 250 tons per 12 consecutive month period. Compliance with this limit makes 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 not applicable.

There are no other new State Rules applicable to the entire source basis due to this Significant Source Modification. All State Rules cited in FESOP (F053-5552-00038) issued on December 10, 1996, continue to apply to this source.

## State Rule Applicability - Individual Facilities

### 326 IAC 6-3-2 (Process Operations)

- (a) The particulate matter (PM) from the one (1) drum dryer, exhaust stack ID No. #1, shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

$$E = 55.0 (100)^{0.11} - 40 \quad \text{where } E = 51.27 \text{ pounds per hour and} \\ P = 100 \text{ tons per hour}$$

The baghouse shall be in operation at all times the one (1) drum dryer is in operation, in order to comply with this limit. When combined with the 326 IAC 6-3-2 limit for the indoor activities and screening operations the 326 IAC 6-3-2 limit is higher than the 326 IAC 2-2 (PSD) allowable of 250 tons/yr. Therefore, the PM emissions are limited to 36.06 lb/hr or 157.96 tons/yr.

- (b) The particulate matter (PM) from the indoor activities and screening operations, exhaust stack ID No. #2, shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

$$E = 55.0 (100)^{0.11} - 40 \quad \text{where } E = 51.27 \text{ pounds per hour and} \\ P = 100 \text{ tons per hour}$$

The baghouse shall be in operation at all times the indoor activities and screening operations are in operation, in order to comply with this limit. When combined with the 326 IAC 6-3-2 limit for the drum dryer the 326 IAC 6-3-2 limit is higher than the 326 IAC 2-2 (PSD) allowable of 250 tons/yr. Therefore, the PM emissions are limited to 19.61 lb/hr or 85.89 tons/yr.

There are no other new State Rules applicable on a individual facility basis due to this Significant Source Modification. All individual facility State Rules cited in FESOP (F053-5552-00038) issued on December 10, 1996, continue to apply to this source.

## Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

There are no new compliance monitoring requirements applicable to this revision.

## Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 188 hazardous air pollutants (HAPs) set out in the 1990 Clean Air Act. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Quality (OAQ) FESOP Application Form GSD-08.

None of the listed air toxics will be emitted from this significant permit revision.

## Proposed Changes

The following proposed changes shall be made to the Federally Enforceable State Operating Permit (F053-5552-00038);

- (1) The OAQ has revised the permit to replace the old name of Office of Air Quality (OAQ) with the new name of the Office of Air Quality (OAQ).
- (2) The PM emission limitation has been revised as follows to include limitations for both the aggregate drying operation and the indoor activities and screening operations.

### D.1.1 Particulate Matter [326 IAC 2-2] [40 CFR 52.21][40 CFR Part 60.672]

State: Pursuant to 326 IAC-6-3-2-2 (Process Operations PSD), the particulate matter emissions from the baghouse exhaust stack (ID No. #1) shall not exceed 22.6 pounds per hour.

- (a) aggregate drying operation, exhaust stack (ID No. #1), shall not exceed 36.06 pounds per hour (157.96 tons per year), including both filterable and condensible fractions.
- (b) indoor activities and screening operations, exhaust stack (ID No. #2), shall not exceed 19.61 pounds per hour (85.89 tons per year), including both filterable and condensible fractions.

This usage limit is required to limit the sourcewide potential to emit of PM to less than 250 tons per 12 consecutive month period. Compliance with this limit makes 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 not applicable.

Federal: That pursuant to 326 IAC 12, (40 CFR Part 60.672, Subpart OOO) "Standards of Performance for Nonmetallic Mineral Processing Plant", the particulate matter emissions from the 100 tons per hour limestone dryer (equipment Item (f)) and bucket elevator shall be limited to 0.05 grains per dry standard cubic foot (gr/dscf).

- (3) The PM10 FESOP emission limitation has been revised as follows to include limitations for both the aggregate drying operation and the indoor activities and screening operations.

### D.1.2a Particulate Matter 10 Microns (PM-10) [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, particulate matter 10 microns emissions from the

- (a) aggregate drying operation, exhaust stack (ID No. #1), shall not exceed ~~22.3~~ **14.53** pounds

- per hour, including both filterable and condensible fractions.
- (b) indoor activities and screening operations, exhaust stack (ID No. #2), shall not exceed 7.9 pounds per hour, including both filterable and condensible fractions.**

Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

## **Conclusion**

The operation of this limestone pulverizing plant shall be subject to the conditions of the attached proposed Significant Permit Revision No: 053-13693-00038.